

Surfactants: A Greener and More Sustainable Approach

DIRECTED BY

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ACCREDITED
COURSE

- Biodegradability & Environmental Impact
- Sulfate-free Surfactants
- Natural Ingredients
- Fermentation
- Trends

about the course

Surfactants play a vital role in many aspects of modern life and are widely used. This six-hour online, accredited training will describe the types of surfactants we use, how they are made and the environmental concerns over their use. It will discuss methods of making surfactants from natural products with a lower environmental impact. Unfortunately, a number of these “more environmentally acceptable” surfactants themselves have sustainability issues. The course will discuss the development of greener surfactants and what the future might hold.

Since this training is highly interactive, those attending the live training event must have a webcam on their computer as well as a microphone and speakers/headset to fully participate.

who should attend

This intensive, six-hour online course is designed to answer the needs of professionals in the following industries: Cosmetics, Personal Care, Household Care, Pharmaceutical, Paints, Textiles, Oil Industry.

It will be especially beneficial to: Entrepreneurs, Research and Development Scientists, Formulators, Marketing and Sales Executives, Legal/ Regulators, Company Directors.

Departments such as: Sales and Marketing Department, Research and Development, Manufacturing, Environmental, QA/QC, Regulatory and Operations will find the training very worthwhile.

learning objectives

Upon completion of this course, you will be able to:

- Describe the importance of surfactants in our lives
- Explain how surfactants are made and from what raw materials
- List some problems that are caused using surfactants
- Explain how surfactants can affect our health
- Describe their biodegradability and environmental impact
- Review options for making surfactants from natural ingredients. What are the problems using palm oil and how to overcome them? What other natural ingredients can we use? Will fermentation help?
- Discuss sulfate-free alternatives and typical formulations in which they are used

course outline

Review of Learning Objectives Introduction Surfactants

- What are surfactants?
- What do they do?
- How are they made currently?

Drivers for sustainability

- Historical Issues
- Legislation
- Consumer demand

Making surfactants more sustainable

- Synthetically from sustainable ingredients
- The Palm Oil problem
- Alternative oils
- Fermentation
- Nature's own surfactant

Sulfate-free surfactants – reducing irritancy

- Qualitative testing of irritancy and the irritancy of different surfactant types
- Methods for reducing surfactant irritancy
- Typical personal care formulations
- Sulfate-free claims

Question and Answer Session

Assessment Opportunity

course instructor

Dr. Peter Smallwood is the Director of Chemical Associates, a UK based independent technical and training consultancy, serving the chemical, polymer, and allied industries worldwide. His expertise in surface chemistry and surfactants has proved relevant to the manufacture of polymers and coatings and to the formulation of cleaning and antibacterial products. As a result, over the last 15 years, Chemical Associates has become increasingly involved with the detergents and cleaning ingredients industry. He has developed a novel range of concentrated cleaning products for packing into PVA water soluble sachets and several specialist disinfectants. Dr. Smallwood has published several reviews of the current and future prospects for the industry, has presented papers at international conferences, and is involved in the training of industry personnel.

Dr. Smallwood is a member of the RSC and ACS and has recently been appointed Visiting Professor to the Department of Chemistry at the University of Chester.

Accreditations



International Accreditors for Continuing Education and Training (IACET)

Cobblestone has been approved as a CEU Accreditor by IACET and awards CEUs for participation in qualified courses. Cobblestone has demonstrated that it complies with the ANSI/IACET Standards and is authorized to offer IACET CEUs for its programs. CEUs will be awarded for participation in Cobblestone's courses at the rate of .1 CEU per contact hour upon successful completion of the entire course and 70% accuracy in the required Learners' Assessment. A minimum score of 80% is required for all courses within a Cobblestone Certification Program. This course offers a total of 6 contact hours, or .6 CEUs. For further information, visit www.iacet.org